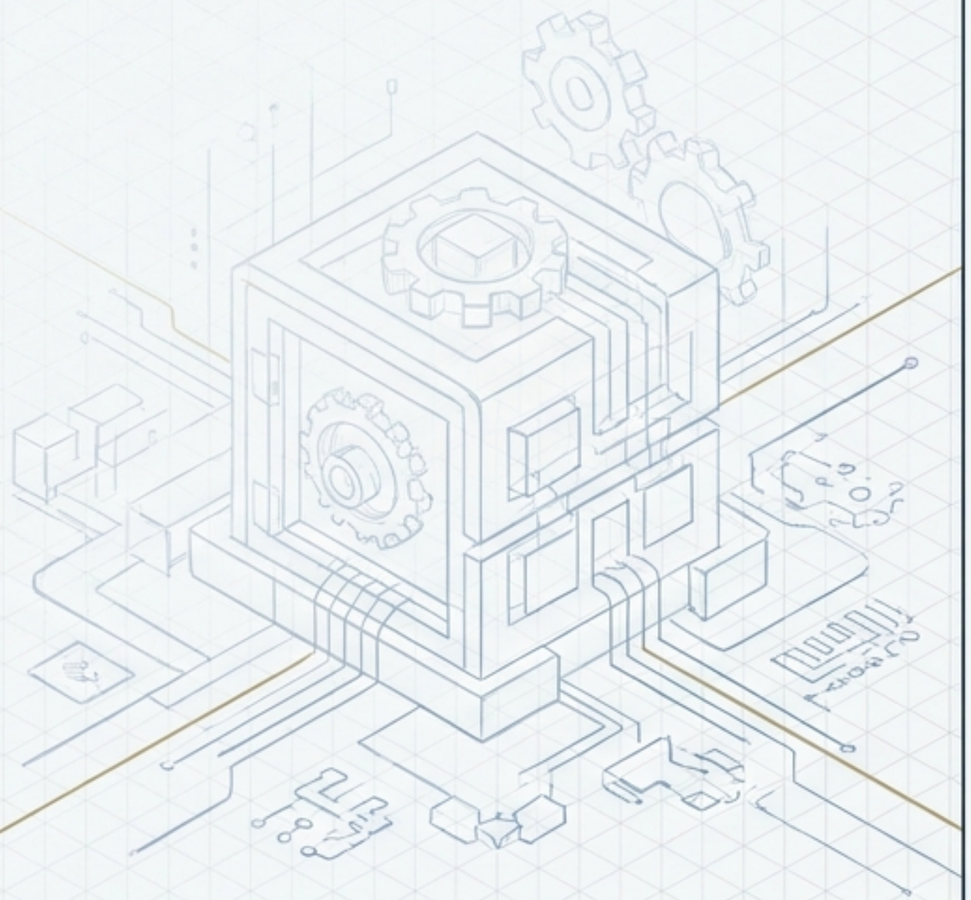
CONFIDENTIAL

Engineering Recovery

Integrated Restructuring & Digital Asset Conversion Framework

Client Reference:	In re: USEC Inc. (Case No. 14-10475)
Vehicle:	Americana Digital Reserve LLC (ADR)
Version / Date:	2.0 (Supplemental) / July 4, 2026



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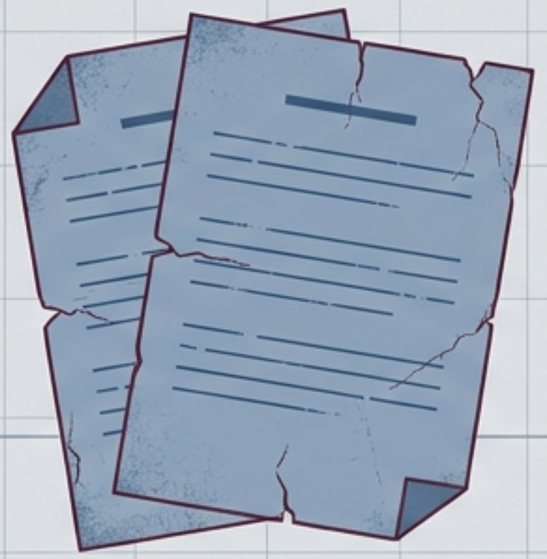
THE ESTATE BURDEN



500,000,000 Aggregate Principal Amount of Senior Notes (1999 Indenture)

- Tranche A: 350,000,000 (6 5/8% Due 2006)
- Tranche B: 150,000,000 (6 3/4% Due 2009)

STATUS: Insufficient unencumbered value to pay claims in full.

THE STRATEGIC RESOLUTION

AMERICANA DIGITAL RESERVE LLC

ADR

Mechanism: Satisfying claims via a Chapter 11 Plan of Reorganization providing Noteholders with Pro Rata equity in a newly formed, bankruptcy-remote Special Purpose Vehicle (SPV) holding a regulated digital asset treasury.

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Restructuring Mechanism Restored to Statutory Compliance

	Flawed Draft Strategy (§ 363 Sale)	Updated ADR Strategy (§ 1123 Plan)
Legal Mechanism	Incorrectly characterizes the Notes as an estate asset to be sold.	**Proper Plan of Reorganization**; claims are satisfied through the issuance of securities of the debtor's affiliate.
Treatment of Debt	Attempted to sell the estate's own indebtedness.	Noteholders receive **Series A Membership Interests** in ADR in full and final satisfaction of claims.
Underlying Valuation	Triggers sovereign currency/securities fraud issues via USD replacement language.	Transparently framed as a **Digital Asset Treasury Reserve** protecting the negotiated settlement value.

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THE SPV CONVERSION ENGINE

ESTATE CONTRIBUTION:
$350M CASH / LIQUID ASSETS
(SEED CAPITAL)

$500M GENERAL UNSECURED NOTEHOLDER CLAIMS

THE § 1123 CRUCIBLE: U.S. BANKRUPTCY COURT CONFIRMED PLAN

100% CLASS A MEMBERSHIP INTERESTS IN ADR

RESULT: CLEAN DISCHARGE OF NOTE OBLIGATIONS FOR THE ESTATE | UPSIDE POTENTIAL AND DIRECT OWNERSHIP STAKE FOR NOTEHOLDERS.

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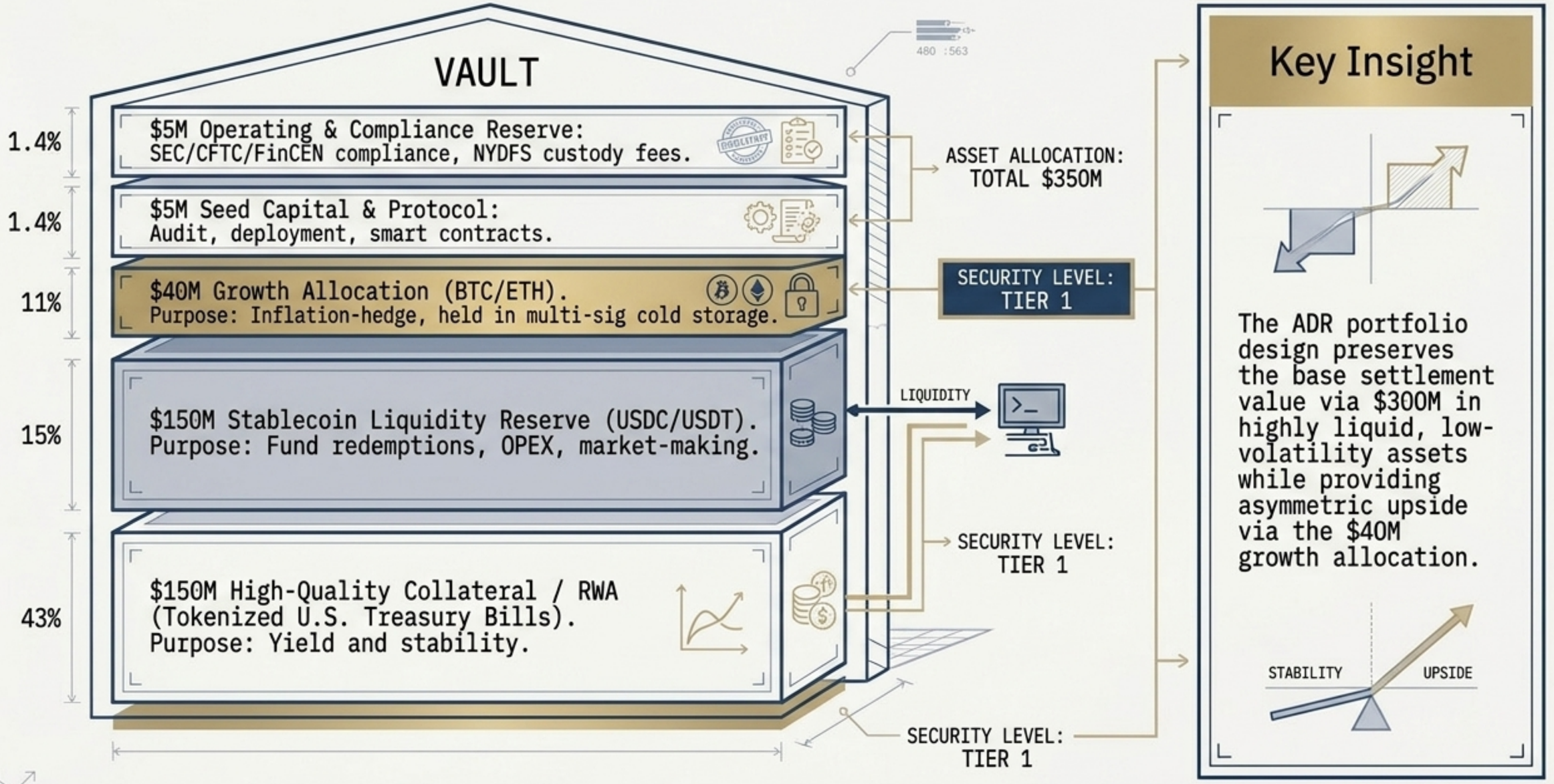
VAULT
1.4%
$5M Operating & Compliance Reserve:
SEC/CFTC/FinCEN compliance, NYDFS custody fees.
1.4%
$5M Seed Capital & Protocol:
Audit, deployment, smart contracts.
11%
$40M Growth Allocation (BTC/ETH).
Purpose: Inflation-hedge, held in multi-sig cold storage.
15%
$150M Stablecoin Liquidity Reserve (USDC/USDT).
Purpose: Fund redemptions, OPEX, market-making.
43%
$150M High-Quality Collateral / RWA
(Tokenized U.S. Treasury Bills).
Purpose: Yield and stability.
480 :563
ASSET ALLOCATION:
TOTAL $350M
SECURITY LEVEL:
TIER 1
LIQUIDITY
SECURITY LEVEL:
TIER 1
SECURITY LEVEL:
TIER 1
Key Insight
The ADR portfolio design preserves the base settlement value via $300M in highly liquid, low-volatility assets while providing asymmetric upside via the $40M growth allocation.
STABILITY
UPSIDE

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THE FIDUCIARY & CUSTODIAL ARCHITECTURE

GOVERNANCE BOARD

Governed by a Board of Managers (3 independent, 1 Noteholder-appointed). 75% supermajority required for material investment decisions.

VOTING

REQ: >75% SUPERMAJORITY

REGULATORY EXEMPTIONS

Series A Interest offering executed under SEC Reg D 506(c) / Reg S for Accredited Investors and Qualified Purchasers.

REG: D506(c) / S // INVESTOR: AI/QP

INSTITUTIONAL CUSTODY

Minimum 80% of non-stablecoin assets in cold storage. Managed by NYDFS-licensed custodians (e.g., Coinbase Custody, BitGo Trust) with comprehensive cyber liability insurance.

80%

COINBASE CUSTODY

BITGO TRUST

LIABILITY COVERAGE

CUSTODY: NYDFS LICENSED // COLD: 80% MIN

BLOCKCHAIN ATTESTATION

Publicly verifiable on-chain holdings supported by third-party smart contract audits (CertiK, Trail of Bits) and annual audited financial statements.

CERTIK

TRAIL OF BITS

AUDITED FINANCIALS

AUDIT: CERTIK/TOB // ON-CHAIN: VERIFIABLE

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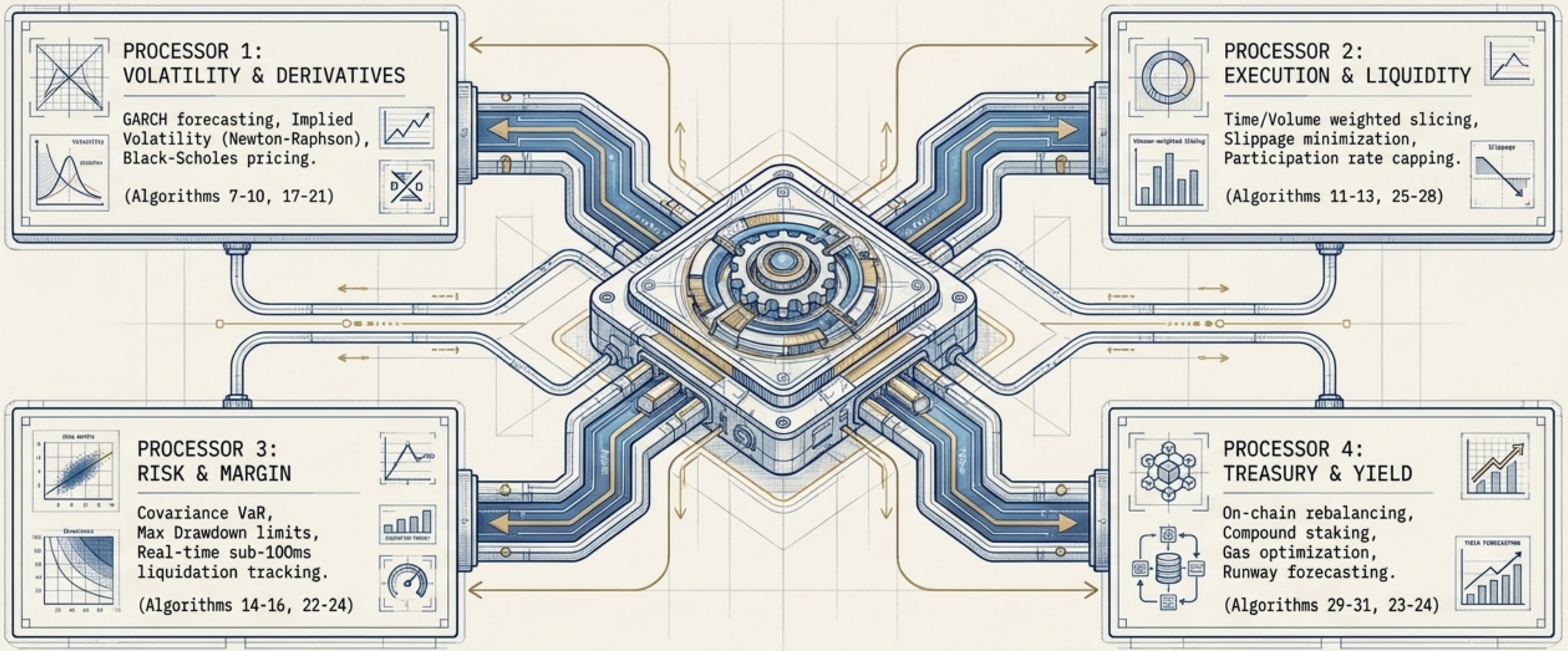
THE ADR QUANT ENGINE

31 Algorithms. Arbitrary-Precision Mathematics. Sub-100ms Execution.



PROCESSOR 1: VOLATILITY & DERIVATIVES

GARCH forecasting, Implied Volatility (Newton-Raphson), Black-Scholes pricing.

(Algorithms 7-10, 17-21)

PROCESSOR 2: EXECUTION & LIQUIDITY

Time/Volume weighted slicing, Slippage minimization, Participation rate capping.

(Algorithms 11-13, 25-28)

PROCESSOR 3: RISK & MARGIN

Covariance VaR, Max Drawdown limits, Real-time sub-100ms liquidation tracking.

(Algorithms 14-16, 22-24)

PROCESSOR 4: TREASURY & YIELD

On-chain rebalancing, Compound staking, Gas optimization, Runway forecasting.

(Algorithms 29-31, 23-24)

SYSTEM REQ: Engine maintains ACID properties with daily MLE calibration on rolling 252-day windows.

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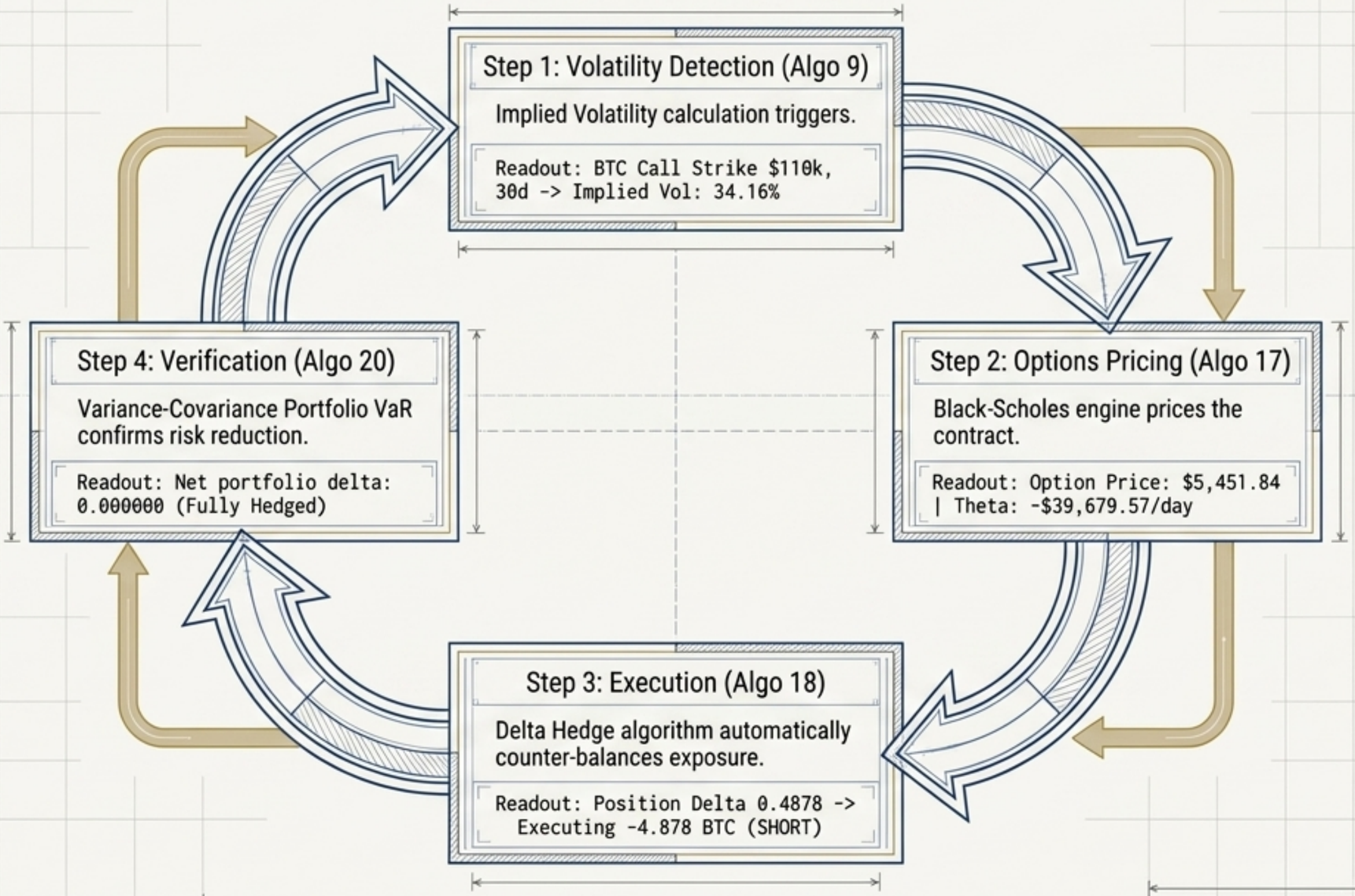
Processor 01: The Algorithmic Hedging Loop


Step 1: Volatility Detection (Algo 9)
Implied Volatility calculation triggers.
Readout: BTC Call Strike $110k, 30d -> Implied Vol: 34.16%
Step 2: Options Pricing (Algo 17)
Black-Scholes engine prices the contract.
Readout: Option Price: $5,451.84 | Theta: -$39,679.57/day
Step 3: Execution (Algo 18)
Delta Hedge algorithm automatically counter-balances exposure.
Readout: Position Delta 0.4878 -> Executing -4.878 BTC (SHORT)
Step 4: Verification (Algo 20)
Variance-Covariance Portfolio VaR confirms risk reduction.
Readout: Net portfolio delta: 0.000000 (Fully Hedged)

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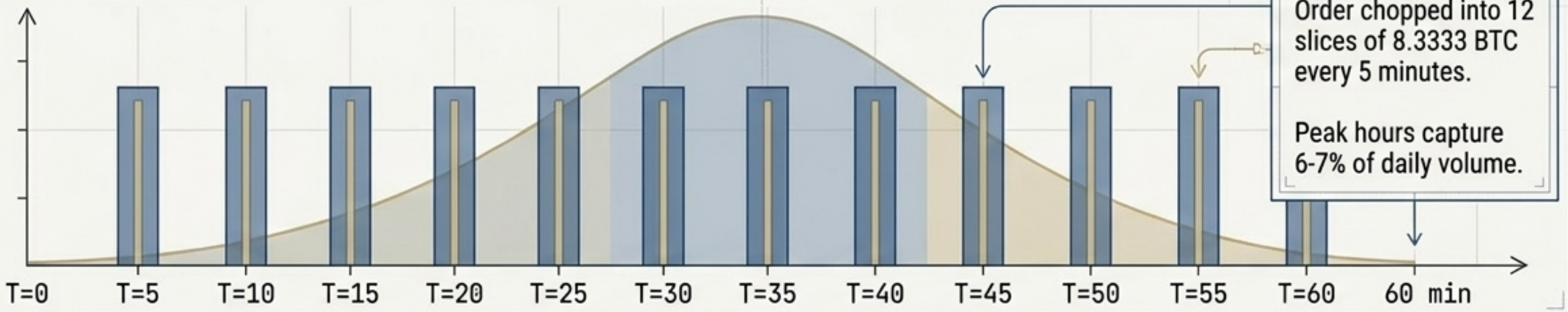
Processor 02: Execution Slicing & Slippage Mitigation

TWAP/VWAP Engine - Algos 11 & 12



Constant Product AMM Slippage - Algo 25

Trade Size	Slippage
1 BTC trade	1.28% slippage
10 BTC trade	9.34% slippage
25 BTC trade	20.19% slippage

Takeaway: The Participation Rate algorithm (Algo 13) caps execution at a max 10% of daily volume, ensuring the ADR never suffers the 20%+ AMM slippage penalties of unoptimized large-block trading.

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Processor 03: Systemic Risk & Margin Defense

Margin Mechanics (Algos 14-16)

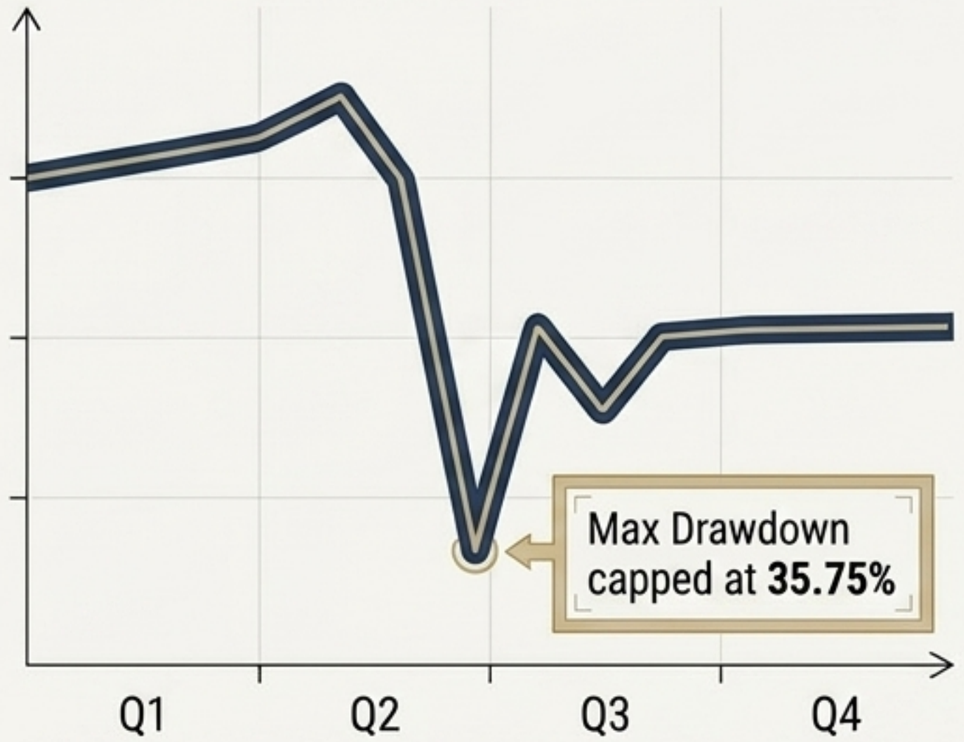
Entry $108,000 at 5x Leverage (50% maintenance).

Circuit breaker triggers at 110% of liquidation threshold ($97,200).

Stress Testing (Algo 21)

Crypto Crash (−40% BTC, −50% ETH):	**-$31.0M**
Interest Rate Spike (+300bp):	**-$9.3M**
Stablecoin Depeg (−5% USDC):	**-$1.3M**
Black Swan (All −60%):	**-$60.0M**

Maximum Drawdown (Algo 22)



Ensures institutional-grade volatility limits by strictly capping simulated downside exposure.

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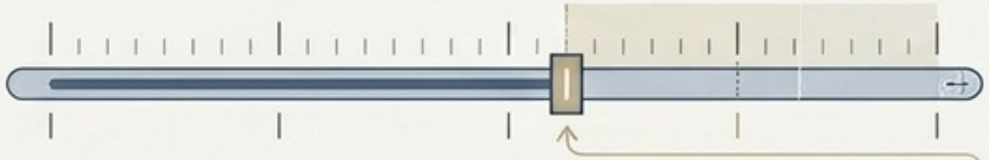
Processor 04: Treasury Optimization & Yield

Growth (via Algos 23 & 24)

Compound Staking:
$1M principal compounding daily at 5% = $51,267.50 reward (5.13% APY).

Yield Farming:
Dynamic LP optimization generating up to 20.02% APY based on $5M TVL and token reward prices.

Operations (via Algos 27, 28 & 31)



Gas Optimization:
Batched rebalancing triggered during low-congestion UTC windows (2-6 AM) drops average gas to 25.0 gwei.

Treasury Runway:
At a $350M balance with $5M monthly burn, the algorithms project and manage a secure 70-month (5.8 years) operational runway.

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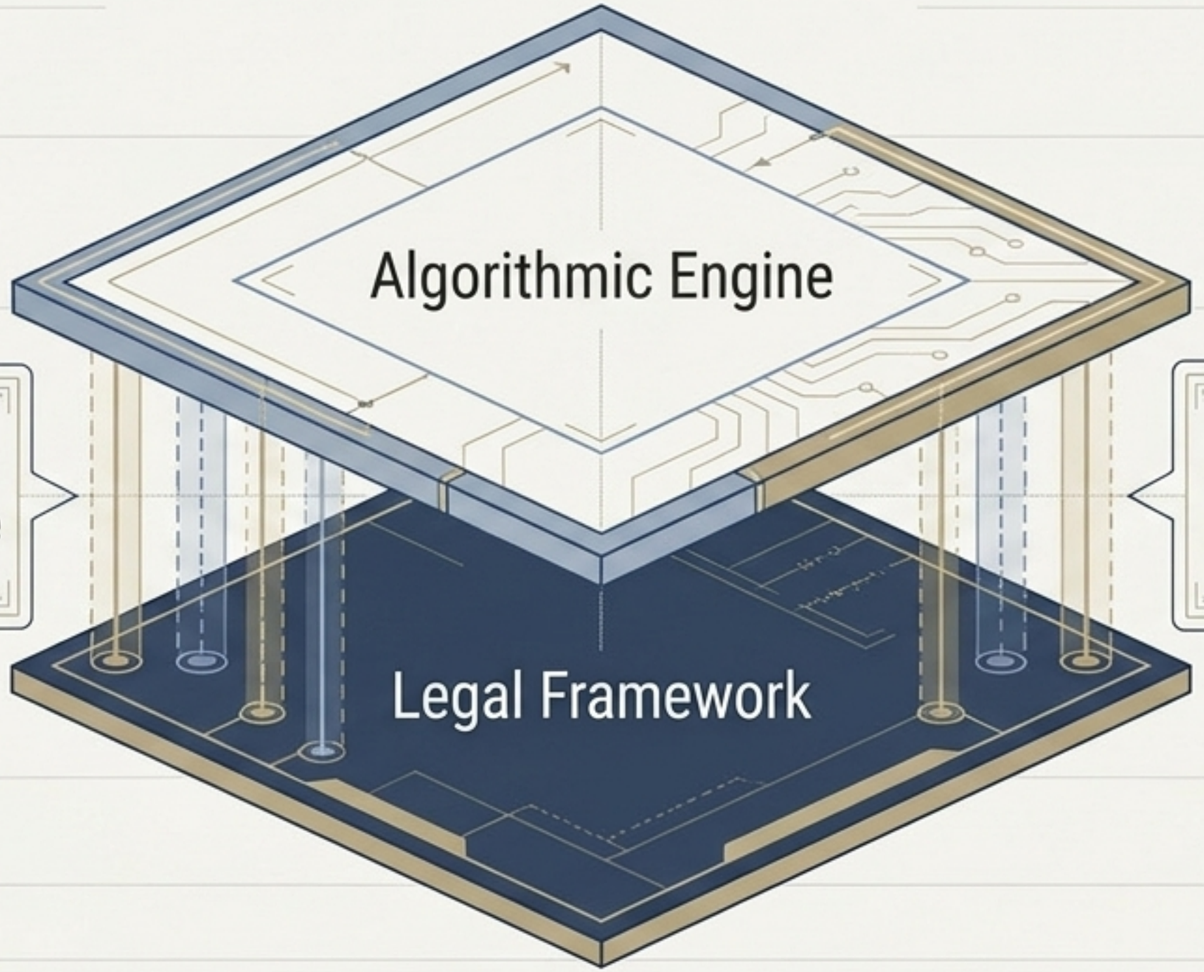
The Unified Fiduciary Shield



Custody & Risk:
NYDFS Qualified Custody (Law) ↔ Variance-Covariance Portfolio VaR (Math).

Compliance & Execution:
SEC Exempt Offering & Audits (Law) ↔ Constant Product AMM Slippage limits (Math).

Neither corporate bankruptcy law nor quantitative finance can protect the estate in isolation. ADR binds the fiduciary strictures of Chapter 11 with arbitrary-precision mathematics to engineer a perfect recovery vehicle.

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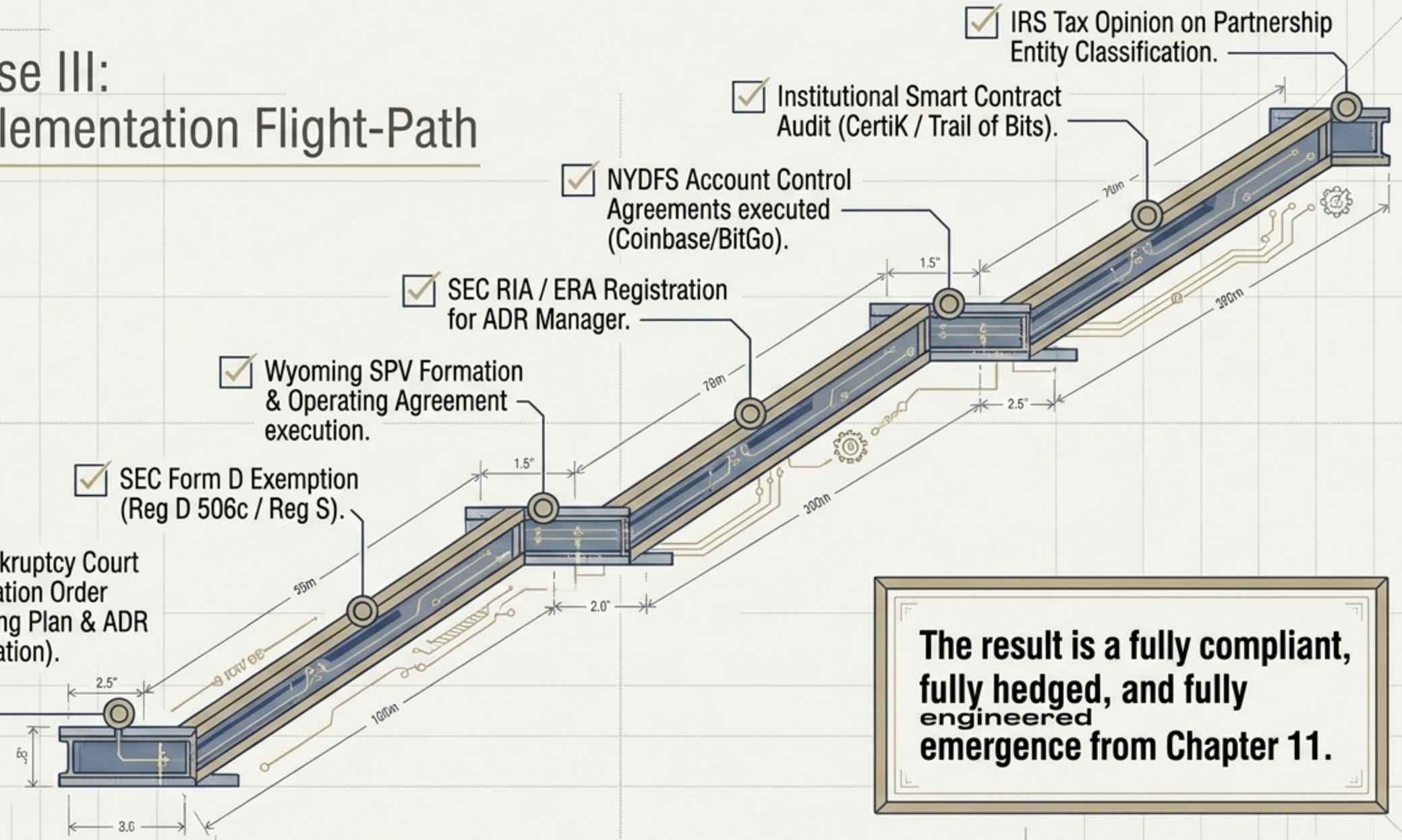
Phase III: Implementation Flight-Path

- [x] U.S. Bankruptcy Court Confirmation Order (approving Plan & ADR capitalization).
- [x] SEC Form D Exemption (Reg D 506c / Reg S).
- [x] Wyoming SPV Formation & Operating Agreement execution.
- [x] SEC RIA / ERA Registration for ADR Manager.
- [x] NYDFS Account Control Agreements executed (Coinbase/BitGo).
- [x] Institutional Smart Contract Audit (CertiK / Trail of Bits).
- [x] IRS Tax Opinion on Partnership Entity Classification.



The result is a fully compliant, fully hedged, and fully engineered emergence from Chapter 11.

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